

SEQUENCE LISTING

<110> Raj, Madhwa H.G.
Rao, Prakash N.

<120> Treatment of Prostate Cancer

<130> Raj 02M27.1

<140> 10/
<141> 2004-03-10

<150> 60/453,602
<151> 2003-03-11

<160> 12

<170> PatentIn version 3.2

<210> 1
<211> 15
<212> DNA
<213> Artificial

<220>

<223> Sense oligonucleotide to human retinol binding protein.

<400> 1

gtcactcccg aaatg

15

<210> 2
<211> 15
<212> DNA
<213> Artificial

<220>

<223> Antisense oligonucleotide to human retinol binding protein.

<400> 2

catttcggga gtgac

15

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<210> 3
<211> 24
<212> DNA
<213> Artificial

<220>
<223> Sense oligonucleotide to human folic acid binding protein.

<400> 3
gggacagaca tggctcagcg gatg 24

<210> 4
<211> 24
<212> DNA
<213> Artificial

<220>
<223> Antisense oligonucleotide to human folic acid binding protein.

<400> 4
catccgctgt gccatgtctg tccc 24

<210> 5
<211> 24
<212> DNA
<213> Artificial

<220>
<223> Sense oligonucleotide to human riboflavin carrier protein.

<400> 5
ggaacaacaa tgctgaggtt tgcc 24

<210> 6
<211> 24
<212> DNA
<213> Artificial

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<220>

<223> Antisense oligonucleotide to human riboflavin carrier protein.

<400> 6

ggcaaacctc agcattgttg ttcc

24

<210> 7

<211> 182

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Retinol binding protein.

<400> 7

Glu Arg Asp Cys Arg Val Ser Ser Phe Arg Val Lys Glu Asn Phe Asp
1 5 10 15

Lys Ala Arg Phe Ser Gly Thr Trp Tyr Ala Met Ala Lys Lys Asp Pro
20 25 30

Glu Gly Leu Phe Leu Gln Asp Asn Ile Val Ala Glu Phe Ser Val Asp
35 40 45

Glu Thr Gly Gln Met Ser Ala Thr Ala Lys Gly Arg Val Arg Leu Leu
50 55 60

Asn Asn Trp Asp Val Cys Ala Asp Met Val Gly Thr Phe Thr Asp Thr
65 70 75 80

Glu Asp Pro Ala Lys Phe Lys Met Lys Tyr Trp Gly Val Ala Ser Phe
85 90 95

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Leu Gln Lys Gly Asn Asp Asp His Trp Ile Val Asp Thr Asp Tyr Asp
100 105 110

Thr Tyr Ala Val Gln Tyr Ser Cys Arg Leu Leu Asn Leu Asp Gly Thr
115 120 125

Cys Ala Asp Ser Tyr Ser Phe Val Phe Ser Arg Asp Pro Asn Gly Leu
130 135 140

Pro Pro Glu Ala Gln Lys Ile Val Arg Gln Arg Gln Glu Glu Leu Cys
145 150 155 160

Leu Ala Arg Gln Tyr Arg Leu Ile Val His Asn Gly Tyr Cys Asp Gly
165 170 175

Arg Ser Glu Arg Asn Leu
180

<210> 8
<211> 292
<212> PRT
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Folic acid binding protein.

<400> 8

Val Asp Ser Val Tyr Arg Thr Arg Ser Leu Gly Val Ala Ala Glu Gly
1 5 10 15

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Ile Pro Asp Gln Tyr Ala Asp Gly Glu Ala Ala Arg Val Trp Gln Leu			
20	25	30	
Tyr Ile Gly Asp Thr Arg Ser Arg Thr Ala Glu Tyr Lys Ala Trp Leu			
35	40	45	
Leu Gly Leu Leu Arg Gln His Gly Cys His Arg Val Leu Asp Val Ala			
50	55	60	
Cys Gly Thr Gly Val Asp Ser Ile Met Leu Val Glu Glu Gly Phe Ser			
65	70	75	80
Val Thr Ser Val Asp Ala Ser Asp Lys Met Leu Lys Tyr Ala Leu Lys			
85	90	95	
Glu Arg Trp Asn Arg Arg Lys Glu Pro Ala Phe Asp Lys Trp Val Ile			
100	105	110	
Glu Glu Ala Asn Trp Leu Thr Leu Asp Lys Asp Val Pro Ala Gly Asp			
115	120	125	
Gly Phe Asp Ala Val Ile Cys Leu Gly Asn Ser Phe Ala His Leu Pro			
130	135	140	
Asp Ser Lys Gly Asp Gln Ser Glu His Arg Leu Ala Leu Lys Asn Ile			
145	150	155	160
Ala Ser Met Val Arg Pro Gly Gly Leu Leu Val Ile Asp His Arg Asn			
165	170	175	
Tyr Asp Tyr Ile Leu Ser Thr Gly Cys Ala Pro Pro Gly Lys Asn Ile			
180	185	190	

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Tyr Tyr Lys Ser Asp Leu Thr Lys Asp Ile Thr Thr Ser Val Leu Thr
195 200 205

Val Asn Asn Lys Ala His Met Val Thr Leu Asp Tyr Thr Val Gln Val
210 215 220

Pro Gly Ala Gly Arg Asp Gly Ala Pro Gly Phe Ser Lys Phe Arg Leu
225 230 235 240

Ser Tyr Tyr Pro His Cys Leu Ala Ser Phe Thr Glu Leu Val Gln Glu
245 250 255

Ala Phe Gly Gly Arg Cys Gln His Ser Val Leu Gly Asp Phe Lys Pro
260 265 270

Tyr Arg Pro Gly Gln Ala Tyr Val Pro Cys Tyr Phe Ile His Val Leu
275 280 285

Lys Lys Thr Gly
290

<210> 9
<211> 222
<212> PRT
<213> Bos taurus

<220>
<221> misc_feature
<222> (55)..(55)
<223> Xaa at location 55 is unknown. Milk folate binding protein.
<400> 9

Express Mail No. EU201395058

Ala Gln Ala Pro Arg Thr Pro Arg Ala Arg Thr Asp Leu Leu Asn Val
1 5 10 15

Cys Met Asp Ala Lys His His Lys Ala Glu Pro Gly Pro Glu Asp Ser
20 25 30

Leu His Glu Gln Cys Ser Pro Trp Arg Lys Asn Ala Cys Cys Ser Val
35 40 45

Asn Thr Ser Ile Glu Ala Xaa Lys Asp Ile Ser Tyr Leu Tyr Arg Phe
50 55 60

Asn Trp Asp His Cys Gly Lys Met Glu Pro Ala Cys Lys Arg His Phe
65 70 75 80

Ile Gln Asp Thr Cys Leu Tyr Glu Cys Ser Pro Asn Leu Gly Pro Trp
85 90 95

Ile Arg Glu Val Asn Gln Arg Trp Arg Lys Glu Arg Val Leu Gly Val
100 105 110

Pro Leu Cys Lys Glu Asp Cys Gln Ser Trp Trp Glu Asp Cys Arg Thr
115 120 125

Ser Tyr Thr Cys Lys Ser Asn Trp His Lys Gly Trp Asn Trp Thr Ser
130 135 140

Gly Tyr Asn Gln Cys Pro Val Lys Ala Ala His Cys Arg Phe Asp Phe
145 150 155 160

Tyr Phe Pro Thr Pro Ala Ala Leu Cys Asn Glu Ile Trp Ser His Ser
165 170 175

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Tyr Lys Val Ser Asn Tyr Ser Arg Gly Ser Gly Arg Cys Ile Gln Met
180 185 190

Trp Phe Asp Pro Phe Gln Gly Asn Pro Asn Glu Glu Val Ala Arg Phe
195 200 205

Tyr Ala Glu Asn Pro Thr Ser Gly Ser Thr Pro Gln Gly Ile
210 215 220

<210> 10
<211> 257
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Folate binding protein precursor.

<400> 10

Met Ala Gln Arg Met Thr Thr Gln Leu Leu Leu Leu Leu Val Trp Val
1 5 10 15

Ala Val Val Gly Glu Ala Gln Thr Arg Ile Ala Trp Ala Arg Thr Glu
20 25 30

Leu Leu Asn Val Cys Met Asn Ala Lys His His Lys Glu Lys Pro Gly
35 40 45

Pro Glu Asp Lys Leu His Glu Gln Cys Arg Pro Trp Arg Lys Asn Ala
50 55 60

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Cys Cys Ser Thr Asn Thr Ser Gln Glu Ala His Lys Asp Val Ser Tyr
65 70 75 80

Leu Tyr Arg Phe Asn Trp Asn His Cys Gly Glu Met Ala Pro Ala Cys
85 90 95

Lys Arg His Phe Ile Gln Asp Thr Cys Leu Tyr Glu Cys Ser Pro Asn
100 105 110

Leu Gly Pro Trp Ile Gln Gln Val Asp Gln Ser Trp Arg Lys Glu Arg
115 120 125

Val Leu Asn Val Pro Leu Cys Lys Glu Asp Cys Glu Gln Trp Trp Glu
130 135 140

Asp Cys Arg Thr Ser Tyr Thr Cys Lys Ser Asn Trp His Lys Gly Trp
145 150 155 160

Asn Trp Thr Ser Gly Phe Asn Lys Cys Ala Val Gly Ala Ala Cys Gln
165 170 175

Pro Phe His Phe Tyr Phe Pro Thr Pro Thr Val Leu Cys Asn Glu Ile
180 185 190

Trp Thr His Ser Tyr Lys Val Ser Asn Tyr Ser Arg Gly Ser Gly Arg
195 200 205

Cys Ile Gln Met Trp Phe Asp Pro Ala Gln Gly Asn Pro Asn Glu Glu
210 215 220

Val Ala Arg Phe Tyr Ala Ala Ala Met Ser Gly Ala Gly Pro Trp Ala
225 230 235 240

Express Mail No. EU201395058

Ala Trp Pro Phe Leu Leu Ser Leu Ala Leu Met Leu Leu Trp Leu Leu
245 250 255

Ser

<210> 11
<211> 222
<212> PRT
<213> Bos taurus

<220>
<221> misc_feature
<222> (55)..(55)
<223> Xaa at location 55 is unknown. Folate binding protein.

<400> 11

Ala Gln Ala Pro Arg Thr Pro Arg Ala Arg Thr Asp Leu Leu Asn Val
1 10 15

Cys Met Asp Ala Lys His His Lys Ala Glu Pro Gly Pro Glu Asp Ser
20 25 30

Leu His Glu Gln Cys Ser Pro Trp Arg Lys Asn Ala Cys Cys Ser Val
35 40 45

Asn Thr Ser Ile Glu Ala Xaa Lys Asp Ile Ser Tyr Leu Tyr Arg Phe
50 55 60

Asn Trp Asp His Cys Gly Lys Met Glu Pro Ala Cys Lys Arg His Phe
65 70 75 80

Express Mail No. EU201395058

Ile Gln Asp Thr Cys Leu Tyr Glu Cys Ser Pro Asn Leu Gly Pro Trp
85 90 95

Ile Arg Glu Val Asn Gln Arg Trp Arg Lys Glu Arg Val Leu Gly Val
100 105 110

Pro Leu Cys Lys Glu Asp Cys Gln Ser Trp Trp Glu Asp Cys Arg Thr
115 120 125

Ser Tyr Thr Cys Lys Ser Asn Trp His Lys Gly Trp Asn Trp Thr Ser
130 135 140

Gly Tyr Asn Gln Cys Pro Val Lys Ala Ala His Cys Arg Phe Asp Phe
145 150 155 160

Tyr Phe Pro Thr Pro Ala Ala Leu Cys Asn Glu Ile Trp Ser His Ser
165 170 175

Tyr Lys Val Ser Asn Tyr Ser Arg Gly Ser Gly Arg Cys Ile Gln Met
180 185 190

Trp Phe Asp Pro Phe Gln Gly Asn Pro Asn Glu Glu Val Ala Arg Phe
195 200 205

Tyr Ala Glu Asn Pro Thr Ser Gly Ser Thr Pro Gln Gly Ile
210 215 220

<210> 12
<211> 245
<212> PRT
<213> Homo sapiens

Express Mail No. EU201395058

<220>

<221> misc_feature

<223> Folate binding protein.

<400> 12

Met Leu Pro Ala Ala Thr Glu Val Gln His Arg Leu Gln Gly Gln Lys
1 5 10 15

Asp Met Val Trp Lys Trp Met Pro Leu Leu Leu Leu Val Cys Val
20 25 30

Ala Thr Met Cys Ser Ala Gln Asp Arg Thr Asp Leu Leu Asn Val Cys
35 40 45

Met Asp Ala Lys His His Lys Thr Lys Pro Gly Pro Glu Asp Lys Leu
50 55 60

His Asp Gln Cys Ser Pro Trp Lys Lys Asn Ala Cys Cys Thr Ala Ser
65 70 75 80

Thr Ser Gln Glu Leu His Lys Asp Thr Ser Arg Leu Tyr Asn Phe Asn
85 90 95

Trp Asp His Cys Gly Lys Met Glu Pro Ala Cys Ser Ala Thr Ser Ser
100 105 110

Arg Thr Pro Val Ser Met Ser Ala His Gln Pro Gly Ala Leu Asp Pro
115 120 125

Ala Gly Glu Ser Glu Leu Ala Ala Lys Asn Ala Ser Trp Met Cys Pro
130 135 140

Express Mail No. EU201395058

Tyr Ala Lys Ser Thr Val Ser Ala Gly Gly Arg Ile Val Thr Pro Pro
145 150 155 160

Thr Arg Ala Arg Ala Thr Gly Thr Glu Asp Gly Thr Gly Pro Gln Glu
165 170 175

Leu Thr Ser Ala Gln Leu Gly Leu Ser Ala Ala Pro Leu Ser Pro Thr
180 185 190

Ser Pro Leu Gln Leu Pro Phe Val Lys Ala Ser Gly Val Thr His Thr
195 200 205

Arg Ser Ala Thr Thr Ala Glu Gly Ala Ala Ala Ser Arg Cys Gly
210 215 220

Leu Leu Gln Pro Arg Ala Thr Pro Thr Arg Lys Trp Arg Gly Ser Met
225 230 235 240

Leu Gln Pro Cys Met
245